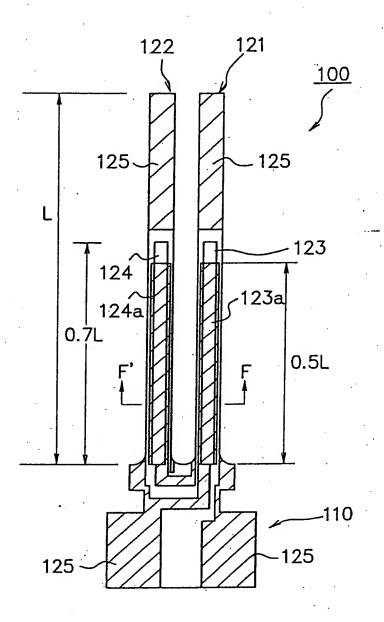
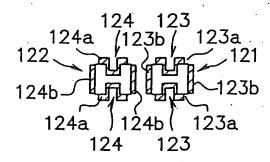
[FIG. 1]

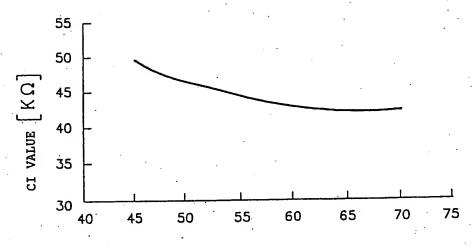


[FIG. 2]



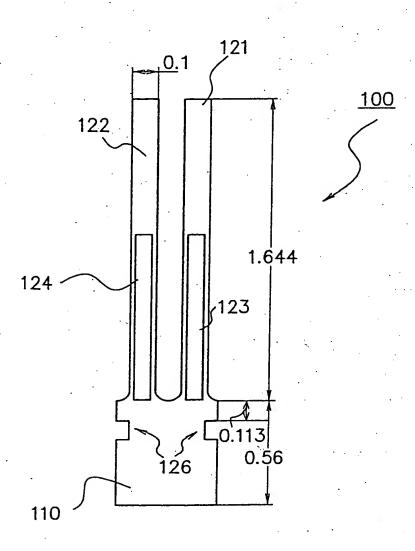
[FIG. 3]

RELATIONSHIP BETWEEN CI VALUE OF FUNDAMENTAL WAVE AND GROOVE LENGTH



groove length/tuning-fork length [%] (L)

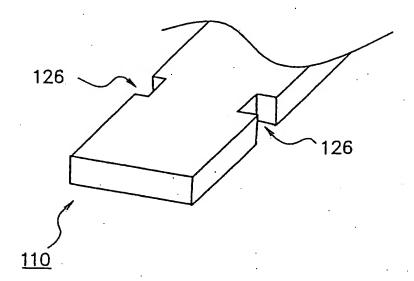
[FIG. 4]



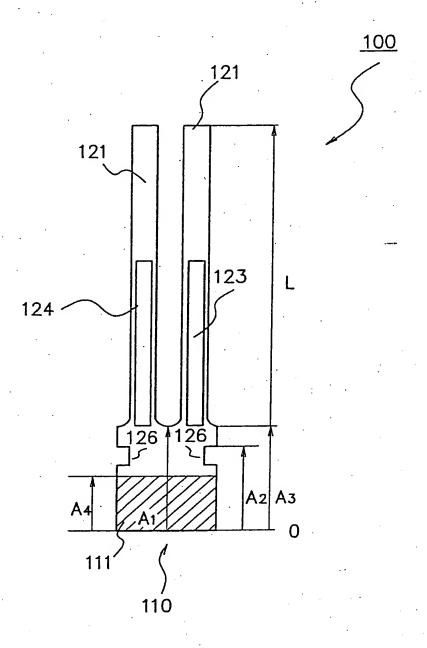
Title: VIBRATING PIECE, VIBRATOR, OSCILLATOR, AND ELECTRONIC DEVICE Inventors: Hideo TANAYA, Fumitaka KITAMURA and Junichiro SAKATA Atty. Ref.: 9319S-321DVA

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[FIG. 5]



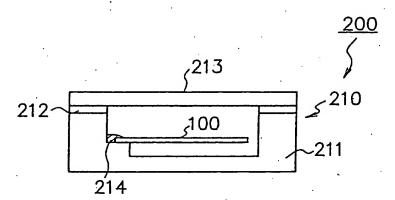
[FIG. 6]



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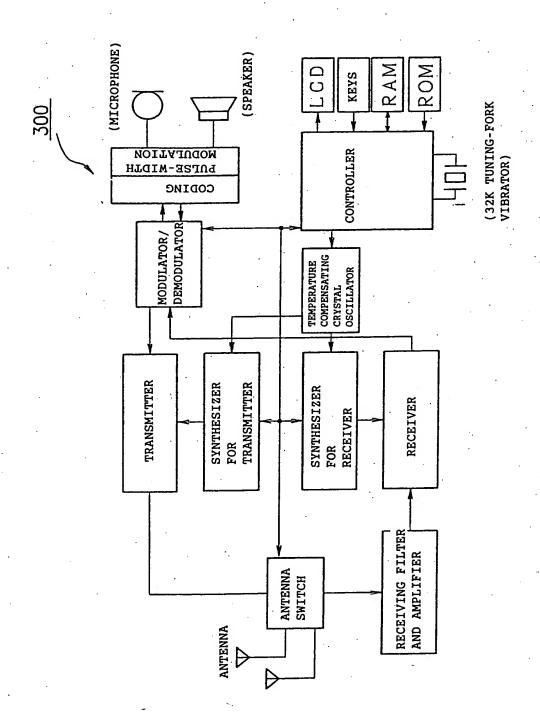
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[FIG. 7]

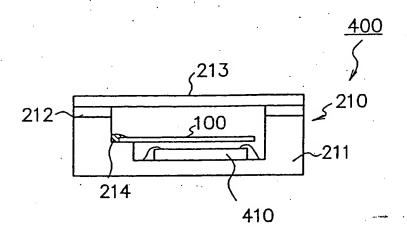


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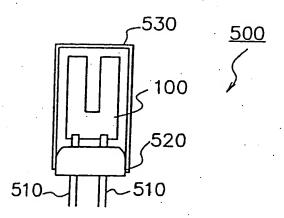
[FIG. 8]



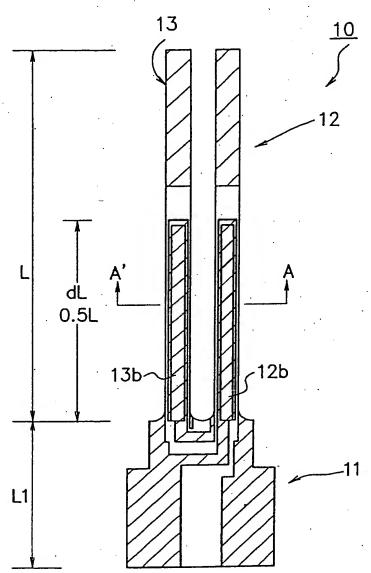
[FIG.9]



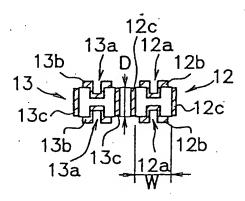
[FIG. 10]



[FIG. 11]

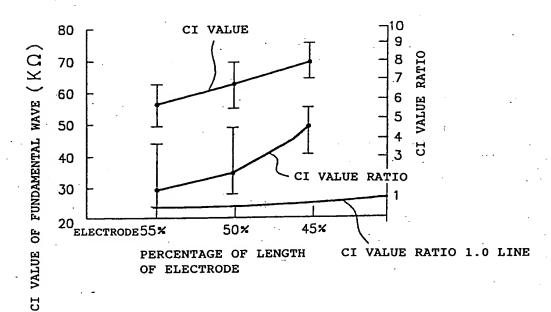


[FIG. 12]

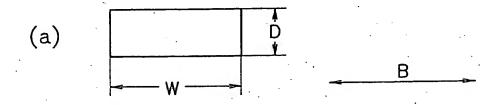


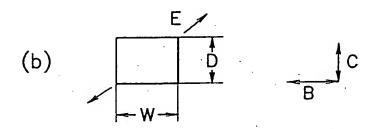
[FIG. 13]

CI VALUE OF FUNDAMENTAL WAVE AND CI VALUE RATIO

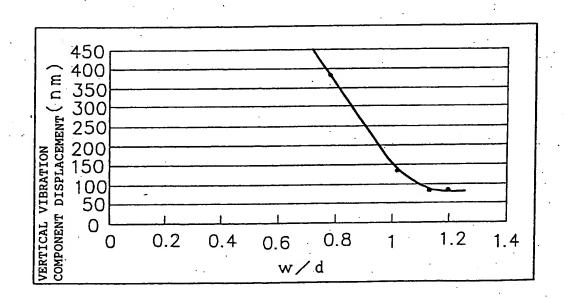


[FIG. 14]

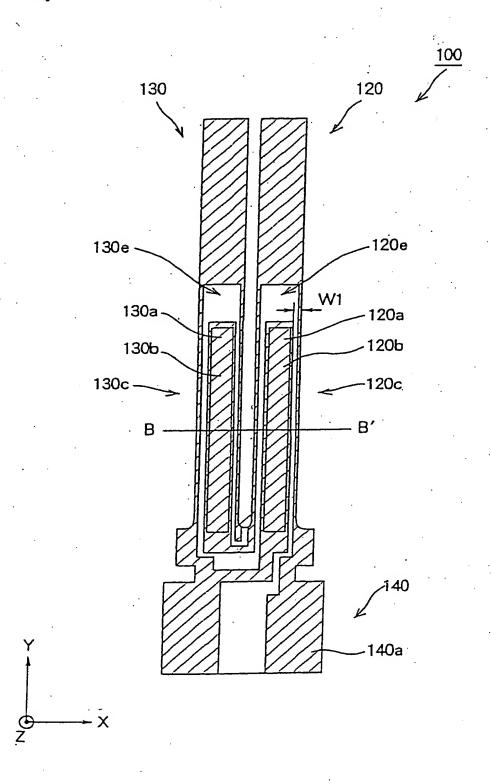




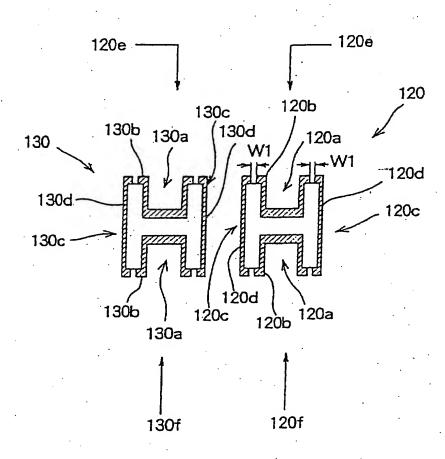
[FIG. 15]



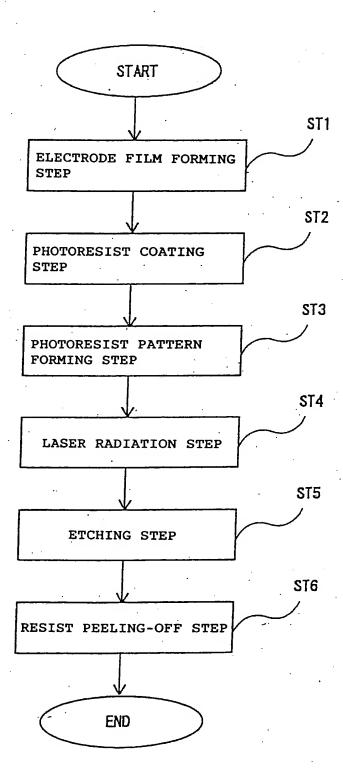
[FIG. 16]



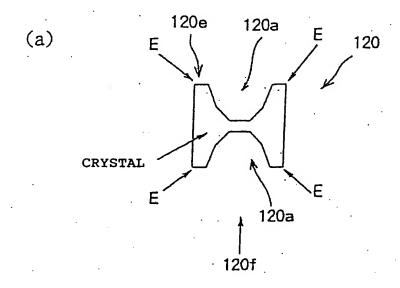
[FIG. 17]

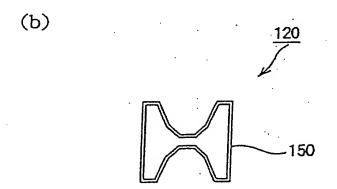


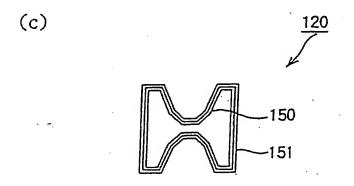
[FIG. 18]



[FIG. 19]

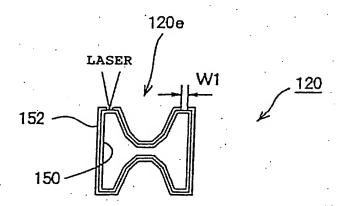




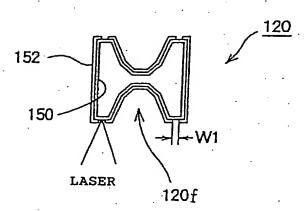


[FIG. 20]

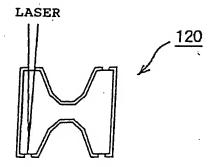
(a)



(b)



(c)

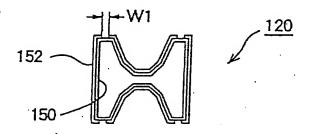


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[FIG. 21]

(a)



(b)

